



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/997,745	11/29/2001	Sanjiv G. Tewani	DP-306477 7500/124	3702

7590 05/09/2005

DELPHI TECHNOLOGIES, INC.

Legal Staff Mail Code: 482-204-450

1450 W. Long Lake

P.O. BOX 5052

Troy, MI 48098

EXAMINER

TORRES, MELANIE

ART UNIT	PAPER NUMBER
----------	--------------

3683

DATE MAILED: 05/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/997,745

Applicant(s)

TEWANI ET AL.

Examiner

Melanie Torres

Art Unit

3683

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 July 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Kojima.

Re claim 1, Kojima discloses a powertrain mount (10) comprising an orifice plate (30) defining an orifice track (44A) having a first cross-sectional area and a slug (48) having a bore (60) with a second cross-sectional area less than the first cross-sectional area. (Figure 5)

Re claim 2, Kojima discloses at least one stop (50) disposed in the orifice track.

Re claim 3, Kojima discloses wherein the at least one stop (50) limits travel of the slug in the orifice track (44A).

Re claim 4, Kojima discloses wherein the bore (44A) has a constant cross-sectional area.

Re claim 5, Kojima discloses a powertrain mount (10) comprising a base plate (16a), a molded member (22) connected to the base plate, an orifice plate (30)

connected to one of the base plate or the molded member, the orifice plate defining an orifice track (44A) having a first cross-sectional area and a slug (48) slidably disposed in the orifice track, the slug having a bore (60) with a second cross-sectional area less than the first cross-sectional area.

Re claim 6, Kojima discloses at least one stop (50) disposed in the orifice track (44A).

Re claim 7, Kojima discloses wherein the at least one stop (50) limits travel of the slug (48) in the orifice track (44A).

Re claim 8, Kojima discloses wherein the bore (60) has a constant cross-sectional area.

Re claim 9, Kojima discloses a mount (10) for a powertrain component of a motor vehicle, the mount comprising a base plate (16A), a molded member (22) connected to the base plate, an orifice plate (30) connected to one of the base plate or the molded member, the orifice plate defining an orifice track (44A) having a first cross-sectional area and a slug (48) slidably disposed in the orifice track, the slug having a bore (60) with a second cross-sectional area less than the first cross-sectional area.

Re claim 10, Kojima discloses at least one stop (50) disposed in the orifice track.

Re claim 11, Kojima discloses wherein the at least one stop (50) limits travel of the slug in the orifice track.

Re claim 12, Kojima discloses wherein the bore (60) has a constant cross-sectional area.

Re claim 13, Kojima discloses wherein the powertrain component is an engine.
(Column 1, lines 11-13)

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ushijima et al. in view of Aaron et al.

Re claim 1, Ushijima et al. teach a powertrain mount (10) comprising an orifice plate (12) defining an orifice track having a first cross-sectional area and a slug (84). However, Ushijima et al. do not teach a slug having a bore with a second cross-sectional area less than the first cross-sectional area. Aaron et al. teach a slug (46) having a bore (47, 48, 49) with a second cross-sectional area less than the first cross-

Art Unit: 3683

sectional area. (Figure 4) It would have been obvious to one of ordinary skill in the art at the time the invention was made to have used the bore of Aaron et al. in the mount of Ushijima et al. in order to provide a dampened flow through the orifice track.

Re claim 2, Ushijima et al. as modified teach at least one stop (44) disposed in the orifice track.

Re claim 3, Ushijima et al. as modified teach wherein the at least one stop (44) limits travel of the slug in the orifice track.

Re claim 4, Ushijima et al. as modified teach wherein the bore (47-49) has a constant cross-sectional area.

Re claim 5, Ushijima et al. teach a powertrain mount (10) comprising a base plate (14), a molded member (16) connected to the base plate, an orifice plate (12) connected to one of the base plate or the molded member, the orifice plate defining an orifice track having a first cross-sectional area and a slug (84) slidably disposed in the orifice track. However, Ushijima et al. do not teach wherein the slug has a bore with a second cross-sectional area less than the first cross-sectional area. Aaron et al. teach a slug (46) having a bore (47, 48, 49) with a second cross-sectional area less than the first cross-sectional area. (Figure 4) It would have been obvious to one of ordinary skill

Art Unit: 3683

in the art at the time the invention was made to have used the bore of Aaron et al. in the mount of Ushijima et al. in order to provide a dampened flow through the orifice track.

Re claim 6, Ushijima et al. as modified teaches at least one stop (44) disposed in the orifice track.

Re claim 7, Ushijima et al. as modified teaches wherein the at least one stop (44) limits travel of the slug (46) in the orifice track.

Re claim 8, Ushijima et al. as modified teaches wherein the bore (60) has a constant cross-sectional area.

Re claim 9, Ushijima et al. teaches a mount (10) for a powertrain component of a motor vehicle, the mount comprising a base plate (14), a molded member (16) connected to the base plate, an orifice plate (12) connected to one of the base plate or the molded member, the orifice plate defining an orifice track having a first cross-sectional area and a slug (84) slidably disposed in the orifice track. However, Ushijima et al. do not teach the slug having a bore (60) with a second cross-sectional area less than the first cross-sectional area. Aaron et al. teach a slug (46) having a bore (47, 48, 49) with a second cross-sectional area less than the first cross-sectional area. (Figure 4) It would have been obvious to one of ordinary skill in the art at the time the invention

Art Unit: 3683

was made to have used the bore of Aaron et al. in the mount of Ushijima et al. in order to provide a dampened flow through the orifice track.

Re claim 10, Ushijima et al. as modified teaches at least one stop (44) disposed in the orifice track.

Re claim 11, Ushijima et al. as modified teaches wherein the at least one stop (44) limits travel of the slug in the orifice track.

Re claim 12, Ushijima et al. as modified teaches wherein the bore (47, 48, 49) has a constant cross-sectional area.

Re claim 13, Ushijima et al. as modified teaches wherein the powertrain component is an engine. (Column 1, lines 11-15)

5. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kojima in view of Chikamori et al.

Re claim 14, Kojima does not teach wherein the powertrain component is a transmission. Chikamori et al. teaches a mount (9) used for a transmission (5). It would have been obvious to one of ordinary skill in the art at the time the invention was made to have provided a mount for use with a transmission in order to reduce vibration.

Art Unit: 3683

6. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ushijima et al. in view of Aaron et al. and further in view of.

Re claim 14, Ushijima as modified does not teach wherein the powertrain component is a transmission. Chikamori et al. teaches a mount (9) used for a transmission (5). It would have been obvious to one of ordinary skill in the art at the time the invention was made to have provided a mount for use with a transmission in order to reduce vibration.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melanie Torres whose telephone number is (571)272-7127. The examiner can normally be reached on Monday-Friday, 6:30 AM - 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Bucci can be reached on (571)272-7099. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 3683

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MT
April 18, 2005

Melanie Jones
4-18-05

Approved
R. J. Smith
Robert Oberstar
Director 3683